

+ Chroma-Chem® 853

Pigment Dispersions for Solvent-Based Urethane Coatings

CHROMA-CHEM® 853 colorants are designed specifically for use in high-performance, non-aqueous, industrial and maintenance coatings. The colorants are exceptional for tinting of solvent-based, urethane industrial coatings.

► Key Benefits

The CHROMA-CHEM® 853 acrylic urethane line is based upon an acrylic polyol, which is reactive with aliphatic isocyanates. It is designed specifically for two-package urethanes used in heavy duty maintenance applications such as chemical plant storage tanks and offshore rigs and platforms.

Polyurethane coatings tinted with CHROMA-CHEM® 853 colorants will have excellent hardness, resistance properties, and durability. The colorants can be used for tinting or full pigmentation. There will be minimal effect on the final coating properties even if the colorants are used for full pigmentation of clear bases. Although the CHROMA-CHEM® 853 colorants can also be used in two-package urethanes, this line of colorants provides particularly good performance in highly corrosive atmospheres or where coatings are subjected to extremely rough treatment.

► Properties

The CHROMA-CHEM® 853 line of colorants exhibits excellent pigment development and rheological characteristics that contribute extraordinary stability to the colorant.

These colorants are controlled to a tinting strength tolerance of $\pm 2\%$ by volume. Rheological properties of the colorants are also controlled to allow for use in volumetric tinting machines. This close control allows for accurate reproduction of color in our Industrial Color System or in custom systems through in-plant or dispenser tinting.

► Applications

The CHROMA-CHEM® 853 colorants are formulated for use in non-aqueous industrial coatings including, but not limited to, concrete protection, general industrial finishes, general OEM, industrial maintenance, marine, and protective coatings.

► Compatibility

The CHROMA-CHEM® 853 colorants have been evaluated in a large number of maintenance and industrial coating types at 5 to 15 percent loading. Properties tested included gloss, gloss retention, hardness, adhesion, effects of over-bake and effect of acid, alkali, solvent and water resistance.

Results are consistent with the individual, typical pigment properties, and good results are expected in a wide variety of coatings applications based on a wide variety of solvents, resins, polymers, reactive diluents, and additives.

► Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the CHROMA-CHEM® 853 colorants is 3 years for the black colorant and 2 years for white a colorant from the date of manufacture in unopened containers.



Product Code	Description	CI Name	% Pigment		% Non-Volatiles		% Water		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
853-0015	Titanium White	White 6	62.5	29.8	14.5	23.1	23.0	47.1	1.90	439	N	N	N	N
853-9910	Lampblack	Black 7	23.0	14.3	22.8	21.4	54.2	64.3	1.12	606	N	N	N	N

^aTypical values based on formulation

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Lightfastness and Resistance Key		
N	no bleed/discoloration	* no Florida data, only Fadeometer
S	slight	** no data
A	appreciable	

*Lightfastness and Resistance information is provide for guidance purposes only.
Source: NPIRI Raw Materials Data Handbook Volume 4 (@ 2000)*



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